

WHAT IS CLAIMED IS:

1. A network managing method providing a device  
list with which device information with regard to a  
plurality of devices is arranged in order and displayed  
5 for every device, comprising:

a first obtaining step of obtaining a type of a  
device information specified to be displayed in the  
device list;

a second obtaining step of obtaining a type of the  
10 device information used to be criteria in the case  
where a plurality of devices are arranged in order in  
the device list; and

a control step wherein the device information of a  
type obtained in the second obtaining step is  
15 controlled to be displayed in the device list, in spite  
of a type obtained by the second obtaining step not  
included in a type obtained in the first obtaining  
step.

20 2. The method according to claim 1, further  
comprising a display step of displaying the device list  
on a display area.

3. The method according to claim 1, further  
25 comprising a sort step that a plurality of devices is  
sorted based on device information of a type obtained  
in the second obtaining step, wherein in the control

step, a device information of a type obtained in the first obtaining step and a device information of a type obtained in the second acquisition step are controlled to be displayed in order of sorted device in the device  
5 list.

4. The method according to claim 1,  
wherein said first step has a type information obtaining step of obtaining a type information  
10 representing a type of a device information specified to be displayed in the device list, and

said control step has a changing step of changing the type information so that the device information of a type obtained in the second obtaining step is  
15 displayed in the device list.

5. The method according to claim 1, comprising:  
a detection step of detecting a plurality of devices connected to a network;  
20 a device information obtaining step of obtaining a device information from a detected a plurality of devices; and

a device list generation step of generating a device list data representing the device list based on  
25 a obtained device information.

6. The method according to claim 5, comprising a

storing step of storing obtained device information in a memory area, and, in the device list generation step, generating the device list data based on a device information stored in the memory area.

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7. The method according to claim 5, comprising:  
a transmitting step of transmitting a generated device list data to a network; and

10 a display controlling step of analyzing the transmitted device list data and having a display area display the device list.

8. The method according to claim 7, wherein said device list data is data described in HTML, and in the  
15 device list transmitting step the device list data being transmitted to a network using an HTTP protocol.

9. The method according to claim 8, wherein the device is a printer.

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10. The method according to claim 1, wherein the device information is at least one selected from the group of device name, device product name, location of device installation, device network address and device  
25 MAC address.

11. A device management device providing a device

list in which a device information with regard to a plurality of devices are arranged in order and displayed for every device, comprising:

5 first obtaining means for obtaining a type of the device information specified to be displayed in the device list;

10 second obtaining means for obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in the device list; and

15 control means in which a device information of a type obtained by the second obtaining means is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining means not included in a type obtained in the first obtaining means.

20 12. The device according to claim 11, wherein said device list is displayed in a display area of an external device.

25 13. The device according to claim 11, comprising sort means for sorting a plurality of devices based on a device information of a type obtained in the second obtaining means, wherein the control means controls device information of a type obtained in the first obtaining means and device information of a type

obtained in the second obtaining means to be displayed  
in order of sorted device in the device list.

14. The device according to claim 11, wherein  
5 said first means obtains a type information  
representing a type of a device information specified  
to be displayed in the device list, and said control  
means changes the type information so that a device  
information of a type obtained in the second obtaining  
10 means is displayed in the device list.

15. The device according to claim 11, comprising:  
detecting means for detecting a plurality of  
devices connected to a network;  
15 device information obtaining means for obtaining  
device information from the detected a plurality of  
devices; and

device list generating means for generating a  
device list data representing the device list based on  
20 the obtained device information.

16. The device according to claim 15, comprising  
memory means for storing the obtained device  
information wherein the device list generating means  
25 generates the device list data based on the device  
information stored in the memory means.

17. The device according to claim 15, comprising transmitting means for transmitting a generated device list data to an external device, wherein the external device analyzes the transmitted device list data and  
5 has a display area display the device list.

18. The device according to claim 17, wherein the device list data is data described in HTML and the device list transmitting means transmits the device  
10 list data to a network using an HTTP protocol.

19. The device according to claim 18, wherein the device is a printer.

20. The device according to claim 11, wherein the device information is at least one selected from the group of device name, device product name, location of device installation, device network address and device  
15 MAC address.

21. A program providing a device list with which device information with regard to a plurality of devices is arranged in order and displayed for each  
20 device,

wherein said program makes a computer perform:  
25 a first obtaining step of obtaining a type of the device information specified to be displayed in the

device list;

a second obtaining step of obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in  
5 the device list; and

a control step wherein the device information of a type obtained in the second obtaining step is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining step not  
10 included in a type obtained in the first obtaining step.

22. The program according to a claim 21, wherein the program makes a computer perform a display step  
15 that displays the device list on a display area.

23. The program according to a claim 21, wherein the program makes a computer perform a sort step to sort a plurality of devices based on the device  
20 information of a type obtained in the second obtaining step, and controls, in the control step, a device information of a type obtained in the first obtaining step and the device information of a type obtained in the second obtaining step to be displayed in order of  
25 sorted device in the device list.

24. The program according to a claim 21,

wherein said first step has a type information obtaining step to obtain a type information representing a type of the device information specified to be displayed in the device list, and

5        said control step has changing step of changing a type information so that a device information of a type obtained in the second obtaining step is displayed in the device list.

10        25. The program according to a claim 21, wherein said program makes a computer perform:

        a detection step of detecting a plurality of devices connected to a network;

        a device information obtaining step of obtaining  
15        the device information from the detected a plurality of devices; and

        a device list generation step of generating a device list data representing the device list based on the obtained device information.

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        26. A recording medium storing a program to provide a device list in which a device information with regard to a plurality of devices is arranged in order and displayed for every device and, the program  
25        makes a computer perform:

        a first obtaining step of obtaining a type of a device information specified to be displayed in the



device list;

a second obtaining step of obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in the device list; and

a control step in which a device information of a type obtained in the second obtaining step is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining step not included in a type obtained in the first obtaining means.

27. The recording medium according to claim 26, wherein the program makes a computer perform a display step having a display area display the device list.

28. The recording medium according to claim 26, wherein the program makes a computer perform a sort step sorting a plurality of devices based on a device information of a type obtained in the second obtaining step, and controls, in the control step, a device information of a type obtained in the first obtaining step and a device information of a type obtained in the second obtaining step to be displayed in order of sorted device in the device list.

29. The recording medium according to claim 26,

wherein said first step has a type information obtaining step of obtaining a type information representing a type of a device information specified to be displayed in the device list; and

5        said control step has a changing step of changing the type information so that a device information of a type obtained in the second obtaining step is displayed in the device list.

10        30. The recording medium according to claim 26, wherein the program makes a computer perform:

        a detection step of detecting a plurality of devices connected to a network;

        a device information obtaining step of obtaining  
15        device information from the detected a plurality of devices; and

        a device list generation step of generating a device list data representing the device list based on the obtained device information.

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31. A providing method of data list that displays data with regard to a plurality of records arranged in order for every record, comprising:

        a first obtaining step of obtaining a data type  
25        designated to be displayed in the data list;

        a second obtaining step of obtaining a data type used to be criteria in the case where a plurality of

records are arranged in the data list; and

5 a control step of controlling a data of a type  
obtained in the second obtaining step to be displayed  
in the data list, in spite of a type obtained in the  
second obtaining step is not included in a type  
obtained in the first obtaining means.

10 32. The method according to claim 31, further  
comprising a display step of making a display area  
display the data list.

15 33. The method according to claim 31, further  
comprising a sort step of sorting a plurality of  
records based on a data of a type obtained in the  
second obtaining step, wherein in said control step, a  
data of a type obtained in the first obtaining step and  
a data of a type obtained in the second obtaining step  
are controlled to be displayed in order of sorted  
record in the data list.

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25 34. The method according to claim 31, wherein  
said first method comprises a type information  
obtaining step of obtaining a type information  
representing a data type specified to be displayed in  
the data list, and said control step comprises a  
changing step of changing the type information so that  
a data of a type obtained in the second obtaining step

is displayed in the data list.

35. A device providing a data list in which a data with regard to a plurality of records is arranged and displayed in order for every record, comprising:

first obtaining means for obtaining a data type specified to be displayed in the data list;

second obtaining means for obtaining a data type to become criteria when a plurality of records are arranged in the data list; and

control means in which a device information of a type obtained in the second obtaining means is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining means not included in a type obtained in the first obtaining means.

36. The device according to claim 35, further comprising displaying means for making a display area display the data list.

37. The device according to claim 35, comprising sort means for sorting a plurality of records based on data of a type obtained in the second obtaining means, wherein the control means controls a data of a type obtained in the first obtaining means and a data of a type obtained in the second obtaining means to be

displayed in order of sorted record in the data list.

38. The device according to claim 35, wherein  
said first means obtains a type information  
5 representing a data type specified to be displayed in  
the data list, and said control means changes the type  
information so that a data of a type obtained in the  
second obtaining means to be displayed in the data  
list.

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39. A program providing a data list that displays  
a data with regard to a plurality of records arranged  
in order for every record,

wherein the program makes a computer perform:

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a first obtaining step of obtaining a data type  
specified to be displayed in the data list;

a second obtaining step of obtaining a data type  
used to be criteria in the case where a plurality of  
records are arranged in the data list; and

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a control step in which a data of a type obtained  
in the second obtaining step is controlled to be  
displayed in the data list, in spite of a type obtained  
in the second obtaining step not included in a type  
obtained in the first obtaining means.

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40. The program according to claim 39, wherein  
the program makes a computer perform a display step of

displaying the data list on a display area.

41. The program according to a claim 39, wherein  
said program makes a computer perform a sort step of  
5 sorting a plurality of records based on a data of the  
type obtained in the second obtaining step, and in said  
control step, a data of a type obtained in the first  
obtaining step and a data of a type obtained in the  
second obtaining step are controlled to be displayed in  
10 order of the sorted records in the device list.

42. The program according to a claim 39, wherein  
said program makes a computer perform in the first step  
a type information obtaining step of obtaining a type  
15 information representing a data type specified to be  
displayed in the data list, and said control step has a  
changing step of changing the type information so that  
a data of a type obtained in the second obtaining step  
is displayed in the data list.

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43. A recording medium to store a program  
providing a data list in which a data with regard to a  
plurality of records is arranged in order and displayed  
for every record and,

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wherein said program makes a computer perform:  
a first obtaining step of obtaining a type of a  
data specified to be displayed in the data list;

a second obtaining step of obtaining a type of data used to be criteria in the case where a plurality of records are arranged in order in the device list; and

5           a control step of controlling a data of a type obtained in the second obtaining step to be displayed in the device list, in spite of a type obtained in the second obtaining step not included in a type obtained in the first obtaining means.

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44. The recording medium according to claim 43, wherein the program makes a computer perform a display step of displaying the data list on a display area.

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45. The recording medium according to claim 43, wherein said program makes a computer perform a sort step of sorting a plurality of records based on a data of a type obtained in the second obtaining step, and in said control step, a data of a type obtained in the first obtaining step and a data of a type obtained in the second obtaining step are controlled to be displayed in order of the sorted records in the data list.

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46. The recording medium according to claim 43, wherein the program makes a computer perform in the first step a type information obtaining step of

obtaining a type information representing the data type  
specified to be displayed in the data list, and said  
control step has a changing step of changing the type  
information so that a data of a type obtained in the  
5 second obtaining step is displayed in the data list.